1645 #13

1600

RAW SEQUENCE LISTING   DATE: 02/21/2002
PATENT APPLICATION: US/09/308,435B   TIME: 09:58:45

Input Set : A:\Astra560.app.txt
Output Set: N:\CRF3\02212002\I308435B.raw

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 3 <110> APPLICANT: Astra Aktiebolag
 5 <120> TITLE OF INVENTION: Vaccine Delivery System and Method of Production
 7 <130> FILE REFERENCE: 1103326-0560
 9 <140> CURRENT APPLICATION NUMBER: 09/308,435B
10 <141> CURRENT FILING DATE: 1999-05-19
12 <150> PRIOR APPLICATION NUMBER: PCT/SE99/00582
13 <151> PRIOR FILING DATE: 1999-04-09
15 <150> PRIOR APPLICATION NUMBER: SE 9801288-3
16 <151> PRIOR FILING DATE: 1998-04-14
18 <160> NUMBER OF SEQ ID NOS: 25
20 <170> SOFTWARE: PatentIn Ver. 2.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 1670
24 <212> TYPE: DNA
25 <213> ORGANISM: Helicobacter pylori
27 <220> FEATURE:
28 <221> NAME/KEY: CDS
29 <222> LOCATION: (793)..(1572)
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36 gatttgattt tagggaatta catgcaagtg aatgaaaaaa acattcaagc gtttgccccc 180
38 aaacaataag gtaaaaaatg ccactcactc atttgaatga agaaaatcaa cctaaaatgg 240
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56 caacaaaagc gtgttggttg cttcggattt gttgttatag aagtctaaaa tattacaatc 780
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63 Lys Cys Leu Leu Gly Ala Ser Val Val Ala Leu Leu Val Gly Cys Ser
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84      95                    100                   105
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88 110                   115                   120               125
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96          145                   150                   155
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103 Gly Glu Ser Leu Asp Ser Phe Thr Met Asp Leu Ser Glu Leu Asp Ile
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106 caa gaa aaa ttc tta aaa acc acc cat tca agc cat agc ggg ggg tta  1407
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112        210                   215                   220
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116        225                   230                   235
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120        240                   245                   250
122 tta aaa ggc aaa aga aac cga taaaaacaaa taacgcataa gaaaagaacg    1602
123 Leu Lys Gly Lys Arg Asn Arg
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Input Set : **A:\Astra560.app.txt**
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147     50                  55                  60
149 Phe Gln Tyr Ser Asp Asn Ile Ala Lys Glu Tyr Glu Asn Lys Phe Lys
150 65                  70                  75                  80
152 Asn Gln Thr Ala Leu Lys Val Glu Gln Ile Leu Gln Asn Gln Gly Tyr
153                85                  90                  95
155 Lys Val Ile Ser Val Asp Ser Ser Asp Lys Asp Asp Phe Ser Phe Ala
156            100 ·                105                 110
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159         115                 120                 125
161 Leu Arg Pro Asp Pro Lys Arg Thr Ile Gln Lys Lys Ser Glu Pro Gly
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167 Ala Gly Phe Ile Lys Val Thr Ile Leu Glu Pro Met Ser Gly Glu Ser
168                165                 170                 175
170 Leu Asp Ser Phe Thr Met Asp Leu Ser Glu Leu Asp Ile Gln Glu Lys
171            180                 185                 190
173 Phe Leu Lys Thr Thr His Ser Ser His Ser Gly Gly Leu Val Ser Thr
174        195                 200                 205
176 Met Val Lys Gly Thr Asp Asn Ser Asn Asp Ala Ile Lys Ser Ala Leu
177     210                 215                 220
179 Asn Lys Ile Phe Ala Asn Ile Met Gln Glu Ile Asp Lys Lys Leu Thr
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186                260
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214 gccatccaat catgctcaat ggggtggata ttgatatttt agaagaaaaa gagacttgta 480
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224 caacaaaagc gtgttggttg cttcggattt gttgttatag aagtctaaaa tattacaatc 780
226 aaggatagaa cg atg aga gca aat aat cat ttt aaa gat ttt gca tgg aaa 831
227            Met Arg Ala Asn Asn His Phe Lys Asp Phe Ala Trp Lys
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230 aaa tgc ctt tta ggc gcg agc gtg gtg gct tta tta gtg gga tgc agc  879
231 Lys Cys Leu Leu Gly Ala Ser Val Val Ala Leu Leu Val Gly Cys Ser
232    15              20                  25
234 ccg cat att att gaa acc aat gaa gtc gct ttg aaa ttg aat tac cat  927
235 Pro His Ile Ile Glu Thr Asn Glu Val Ala Leu Lys Leu Asn Tyr His
236  30                  35                  40                  45
238 cca gct agc gag aaa gtt caa gcg tta gat gaa aag att ttg ctt tta  975
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276 190                 195                 200                 205
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279 Val Ser Thr Met Val Lys Gly Thr Asp Asn Ser Asn Asp Ala Ile Lys
280               210                 215                 220
282 aga gct ttg aat aag att ttt gca aat atc atg caa gaa ata gac aaa 1503
283 Arg Ala Leu Asn Lys Ile Phe Ala Asn Ile Met Gln Glu Ile Asp Lys
284            225                 230                 235
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286 aaa ctc act caa aag aat tta gaa tct tat caa aaa gac gcc aaa gaa   1551
287 Lys Leu Thr Gln Lys Asn Leu Glu Ser Tyr Gln Lys Asp Ala Lys Glu
288         240                 245                 250
290 tta aaa ggc aaa aga aac cga taaaaacaaa taacgcataa gaaaagaacg      1602
291 Leu Lys Gly Lys Arg Asn Arg
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296 tgatgatc                                                         1670
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300 <211> LENGTH: 260
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318 65                  70                  75                  80
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VERIFICATION SUMMARY   DATE: 02/21/2002
PATENT APPLICATION: **US/09/308,435B**   TIME: 09:58:46

Input Set : **A:\Astra560.app.txt**
Output Set: **N:\CRF3\02212002\I308435B.raw**

STATISTICS SUMMARY   DATE: 02/21/2002
PATENT APPLICATION: **US/09/308,435B**   TIME: 09:58:46

Input Set : **A:\Astra560.app.txt**
Output Set: **N:\CRF3\02212002\I308435B.raw**

Application Serial Number: US/09/308,435B
Alpha or Numeric: Numeric
Application Class:
Application File Date: 05-19-1999
Art Unit: 1600
Software Application: PatentIN2.1
Total Number of Sequences: 25
Total Nucleotides: 3340
Total Amino Acids: 1613
Number of Errors: 0
Number of Warnings: 0
Number of Corrections: 0

MESSAGE SUMMARY